BENEFITS OF TILING.

An Ohlo Farmer Gives the Results of Thor-ongh Tiling on Fitty Acres of Clay Soil. On my clayey farm nearly fifty acres are tile-drained thoroughly, with mains where needed, and with laterals thirtythree feet apart and about thirty inches deep. Each linear rod of tiles drains two square rods of land; sighty rods drain an acre; one mile drains four acres, therefore about twelve miles of tiles are buried on my farm. It cost some money, not far from \$200 all told, tile and labor, including my own, for I laid nearly all the tiles with my own hands, dug about one-third of the ditches, out nearly all the grooves in the bottom of the ditches to receive the tiles as a snug fit, and made nearly all the joints where the laterals join the mains. This

The first benefit was that it made tillage and rotation of crops possible continuously. Some years you could get hoed crops, wheat and clover without tiles, but not regularly. Some parts could never be plowed without fearful wash in high water. The drainage made it possible to plow and till large square fields instead of irregular knolls or triangular patches.

drains on fifty acres of rather compact

clayey land. It ought to show some

benefit.

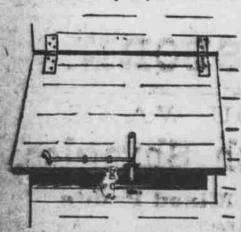
Another benefit is that the "tiling" has made the crops uniformly better than on the parts not tiled. Some times in the case of wheat or potatoes the difference is one between a good crop and almost an entire failure. This year the difference in the clover and timothy was very marked, both in quantity and quality. I had about forty-six acres of clover and timothy, about half of it on tiled land and half not. The untiled land is more rolling, as rich naturally on the average, and being nearer the barn and road has had very much more manure in the past than the tiled portions, probably fully twice as much on the average.

And still my judgment is that the tiled portions yielded this year from thirty to fifty per cent more hay per acre; certainly so if we except from the untiled portions some three acres quite near the barn that for thirty years at least has had much more than its share of manure. Not only was the quantity greater, but the quality was better, more free from weeds, better headed and more uniformly good. This was quite noticeable in the clover and timothy seeded two years ago this spring, now mostly timothy. One strip or plat of about ten acres furthest from town was nearly all tiled, with a little over an acre not tiled. This part, to my certain knowledge, has had much the most manure for thirty years, but the hay from the tiled part I am sure Mr. Petley. my farm manager, will agree was worth about twice as much per acre as that from the untiled part, or as that from an untiled ten acres lying beyond the barn nearer town. On the tiled part the timothy was heavy and long, uniformly headed with very large heads. On the untiled part and on the other untiled ten acres the timothy was short, heads small, and apparently more than half of it did not head. There was bad frost and dry weather in May, and the untiled land did not seem to stand either so well as the tiled. The untiled parts were more rolling, too; left without tiling for that very reason. ...

Still another advantage was manifest this year. The rains had been heavy lown to July 4. The untiled portions were almost mud, the water standing in lepressions. In many places the horses sank over their hoofs, and a wagon with a ton of hay would sink in five or six inches, and it was almost impossible even for a strong team to draw the halfloaded wagon up grade with the hay loader working. But the tiled portions of the field were firm and solid; machines, wagons and horses did not sink in and the field was in line condition for plowing any day. On my tiled wheat field, too, the twine binder ran with perfect ease to the team, whereas untiled clayey fields were so soft that in some places twine binders could not be used.-Ohio Farmer.

Help for the Hands.

Here is an arrangement by which s stable door may be opened while the thands are full of palls or other things. A rod of iron is held in place on the inside of the door by staples. It rests at



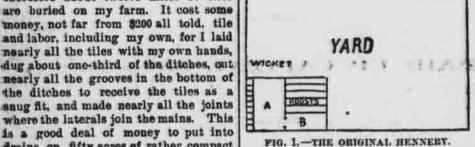
ARTY STABLE BOOK LATER.

the bottom va a piece of sheet iron three inches squary, and bent to an angle on the outer edge, and a corresponding place is on the outside of the door. A hole is bored through the door and a side one has but to step on one and the could will throw the latch up. When coming to the door on the inside the who sold the Worden lately, a hundred baskets at ninety cents a basket, when the opposite and lifting it. A spring Connords were selling at thirty cents. shuts the door. - Farm and Home,

FROM BAD TO GOOD

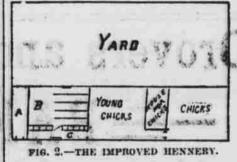
The Evolution of a Poultry House from Useless to a Useful Structure.

The accompanying diagrams illustrate the manner in which a convenient and well-arranged poultry house and yard were evolved from very imperfect ones by S. D. Webster, St. Louis County, Mo. He writes to the American Agriculturist: "I found on the place I purchased a chicken house and yard, arranged as in Fig. 1. The only access to the yard was



through the wicket shown in the diagram. The house could be entered only through the door near the corner. The house was divided by a cross partition into two rooms, the roosts in one and the nestboxes at the further extremity of the other. The door had to be left open for the hens to reach the nests. The house was inconvenient in every way, and I remodeled it as shown in Fig 2.

The cross partition was moved forward, and a second one was builtlengthwise, near the base of which the nestboxes were arranged on a shelf about fourteen inches from the floor. A door was placed on the side of the house opening into the main yard, and another into the small yard, which had been



picketed off for chicks. A small house was built for chickens which had outgrown the motherly care of the hens opening into a picketed yard by itself. The nest-boxes are movable, each one furnished with a lid which can be lifted to remove the eggs. Each box is halved down at one end, as shown in Fig. 3, to admit the hen, but when she wants to sit the box is turned around, and she enters it from the room C, Fig. 2, while she can not be disturbed by the other rounds of buttered toast and serve hot. hens: Food and water are kept in



FIG. 3.—NEST-HOX.

proper receptacles in both rooms, and ample dust-boxes in the open space of the room B. The advantages obtained by the changes are clearly seen by a study of the two diagrams.

GEESE.

Raising Geese a Profitable Business-They Require Little Care and Are Always in

Why so few farmers go in for this lucrative business is a question that has often puzzled us, because after the goslings are two months old they require hardly any attention, as they will forage for themselves, and find quite enough food (with one small feed before letting out) during the day to keep themselves in good healthy condition by wandering over the meadows, along the roadside or by picking over the refuse of the rick vard.

The breeding stock should consist of a gander and three geese. They should have full liberty, and not be over-fed, or unfertile eggs will be the result. When breeding, a small pond or piece of water is necessary.

During this period it is best not to meddle with them, as the gander is generally very spiroful and does not like any interference. The same birds may be used for breeding for a number of

years, as geese live to a great age.

The varieties of geese best known are the Toulouse, the Embden, the Sebastopol, the Chinese, the Egyptian, the Canadian, the Gambian and the Cereopsis. "The two first named are the varieties that find most favor, and are the best for general purposes. The Tou-louse are large, handsome birds, and grow quickly, attaining tremendous weights. The Toulouse crossed with the Emiden produces good hirds for table purposes, as they grow quickly and the flesh is very tender.—Fanciers' Gazette, London.

New Fruits.

It is always unsafe to buy new and high-priced varieties of fruit from other than the most reliable source. I When the Worden grape was first introduc there were so many spurious plants sold which were really the Concord that intelligent cultivators were led to believe that the Worden was really the Concord. But it has now become widely known piece of iron riveted to both pieces of But it has now become widely known short iron. On going to the door out- and extensively disseminated and appreciated. The Prairie Farmer quotes the statement of a Chicago fruit dealer who sold the Worden lately, a hundred baskets at ninety cents a basket, when Country Gentleman.

HOME HINTS AND HELPS.

-Arsenical wall-paper 's recommended as an application to the walls of houses in malarial districts. - Exchange. -For a cold in the head wrap the head up in flannel when you go to bed. It will show its good effect very quickly.

-That unsightly excresence commonly called a wart can be removed by touching it several times a day with castor oil. This is the simplest known

-French Plum Pie.-Two cupfuls of French prunes steeped in cold water over night, one cupful of sugar, one teaspoonful of lemon; line a plate with crust, add the prunes and sugar, onethird of a cupful of water and extract; cover with a crust and bake half an

-Remnants of roasts, either beef or mutton, may be made into palatable breakfast dishes as follows: Cut the meat carefully from the bone and put it into the spider, fragments and all. Add whatever gravy is left, also a linke butter, water, salt and pepper and a table-spoonful of flour stirred into a smooth paste with cold water. Cook three to five minutes and serve hot, with toast or fried or baked potatoes.—Yankee Blade.

-An excellent physician recommends that those who have round shoulders should sleep without any pillow, and lie on the back as much as possible. It is also recommended that the patient recline during the day with the face downward and the upper part of the body resting on the elbows. This is a favorite position with many children when reading or playing on the floor, and ought to be encouraged.—The Home.

-Currant Jelly Sauce.-Two cups hot water and one cup sugar, boil five minutes, then add three teaspoonfuls cornstarch moistened in cold water. Cook for ten minutes, add one-half cup or tumbler current jelly and one tablespoonful butter; stir until the jelly is melted. The juice of a half lemon is an addition to this sauce. Used with the apple charlotte the effect of the red sauce is very ornamental. - Boston Globe.

-Nest Eggs.-Select new-laid eggs, hard boil them and cut them into halves -not longways. Remove the yelks, and put them into a mortar with a corresponding quantity of butter. Skin a tomato, take out the seeds and pound the mixture together, adding two or three mushrooms. Flavor with pepper and salt to taste; make it hot over the fire and refill the egg with it, piling it up in the form of a cone. Arrange them on a dish, standing the eggs on small -Echo

-Apple Bread. - Make a nice dough as for sweet rusks, as they are known in New England, or buns, as they are known elsewhere. When this dough is very light roll it out into two goodsized cakes about half an inch thick, and spread one with stewed apples, place the other over it and let it rise for half an hour, then bake it in a good oven. As soon as it is done spread some stewed apples over the top, add plenty of sugar, bits of butter and nutmeg and set the cake back in the oven for the sugar to form a coating. Serve hot or cold. - Western Rural.

NOVELTIES IN JEWELRY.

Pretty Things Suitable for Birthday and Wedding Presents. Coil bracelets of gold, simulating

skeins of worsted, are an innovation. Apples and bananas constitute a pretty pair of variegated gold cuff links

brought out recently. Silver half dollars, with certain portions enhanced with variegated enameling, are lace pins that command attention.

Alternate strips of plain white enamel, diamonds and sapphires on a horse-shoe lace pin produce an attractive effect.

Ivory hand-painted miniatures, with old French scenes, are now seen inserted in the tops of Etruscan gold bonbon boxes.

When the back of a large oxidized silver crab, exhibited in an uptown window, is raised a complete writing set is disclosed.

A delicate gold chain, by which are suspended diamond and ruby lilies of the valley, makes a pretty present for a

young lady. Pleasing receptacles for silver or gold thimbles are roses decorated in natura? colors. The thimble rests in the center of the flower.

A violin and bow of diamonds crossed above a bar of music of the same gems form an artistic decoration for a presentation watch case.

Unique silver salt shakers represent Chinese lanterns. Grotesque figures are etched on the sides, and these novelties attract much attention.

A silver book-mark stehed with a marine view, the words "Bon voyage" appearing below, makes a very appropriate and useful present to one about to cross the ocean.

A silver ring recently introduced represents an ordinary straight-line collar, such as is commonly worn by dudes. When the button boles meet a diamond or ruby is set.

An emerabd scarf pln of recent makeone receiving much attention from literary folks-represents a plain lead-pencil. Owing to the perfection of the enameling the colors are admirably re-

Of all the fancy cigarette holders that have been introduced of late one in variegated gold, representing a bow of an old oak tree, is the favorite. The stem of the novelty is covered with enameled violets and other flowers.-Jewelers'

Catarrhal Designer Hay Fever A New Home Treatment.

Home Trestment.

Sufferers are not generally aware that these diseases are contagious, or that they are due to the presence of living parasites in the lining membrane of the nose and sustachian tubes. Microscopic research, however, has proved this to be a fact, and the result of this discovery is that a simple remedy has been formulated whereby Catarrh, Hay Fever and Catarrhal Deafness are permanently cured in from one to three simple applications made at home by the patient once in two weeks.

N. B.—This treatment is not a snuff or an ointment; both have been discarded by reputable physicians as injurious. A pamphlet explaining this new treatment is sent on receipt of three cents in stamps to pay postage by A. H. Dixon & Son, cor. of John and King Street, Toronto, Canada.—Christian Advocate.

Sufferers from Catarrhal troubles should carefully read the above.

A soop many people publicly thank the Lord for their prosperity, who would be very mad if somebody should suggest that they were not mainly responsible for it themselves.—Somerville Journal.

when the summer's rose has faded
What shall make infair again?
When the face with pain is shaded
What shall drive away the pain?
Never shall a blossom brighten
After blighted by the frost.
But the load of pain may lighten.
And we need not sount as lost
all the pleasure of life when the wife and
mother, upon whom the happiness of home
so largely depends, is afflicted with the delicete diseases peculiar to women. It is terribi's to contemplate the misery existing in
our midst because of the prevalence of
these diseases. It is high time that all
women should know that there is only one
sure remedy for all female complaints, and
that is Dr. Pierce's Favorite Prescription.
Do not allow ill-health to fasten itself upon
you. Ward it off by the use of this standard remedy. But if it has already crept in,
put it to rout. You can do it, by the use of
the "Favorite Prescription." It is guaranteed to give satisfaction in every case, or
money paid for it will be returned.

For biliousness sick headache indigestion.

For biliousness, sick headache, indigestion and constipation, take Dr. Pierce's Pellets

A CONTEMPORARY defines an optimist as a woman who has a new winter cloak and bonnet, and a pessimist as a woman who

HACKETT, ARKANSAS, Aug. 20, 1887.

HACKETT, ARKANSAS, Aug. 20, 1887.

Dr. A. T. Shallenberger,
Rochester, Pa.

Rochester, Pa.

Rochester, Pa.

Dear Sir:—I wish
you to send me a bottle of your Antidote for
Malaria, which I see advertised in the Methodist Advocate, Chattanooga, Tenn., and
which I can not get here. Fifteen years
ago my mother had third-day chills, and
after trying the doctors and other medicines without relief, a friend recommended
your Antidote; she tried it, and one dose
effected a permanent cure. Truly yours,
J. S. Edwards,
Pastor M. E. Church.

The girls give little thought to the affairs of state, but when the subject is bachelors they know how to reduce the surplus.—Binghamton Herald.

· Consumption Surely Cured.

To THE EDITOR:-Please inform your To THE EDITON:—Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been permanently cured. I shall be glad to send two bottles of my remedy free to any of your readers who have consumption if they will send me their express and post-office address. Respectfully, T. A. SLOCUM, M. C., 181 Pearl street, New York.

It is interesting to note how poker is permeating our best society. When one lady goes to see another she calls.—Merchant Traveler.

Syrup of Figs,

Produced from the laxative and nutritious produced from the faxative and intributes juice of California figs, combined with the medicinal virtues of plants known to be most beneficial to the human system, acts gently, on the kidneys, liver and bowels, effectually cleansing the system, dispelling colds and headaches, and curing habitual

PERMAPS one strong objection to women as waiters is that they can not even be spoken to without a preliminary tip.—Bal-timore American.

Oregon, the Paradise of Farmers. Mild.equitable climate, certain and abundant crops. Best fruit, grain, grass, stock country in the world. Full information free. Address Oregon ImmigrationBoard, Portland, Oregon

It takes a good deal of sand to perpetrate some sugar frauds.—Hutchinson (Kan.) News.

Ans any of the new washing compounds as good as the old-fashioned soap! Dobbins' Electric Soap has been sold every day for 24 years, and is now just as good as ever. Ask your grocer for it and take no other.

WEEN you truly and devotedly love a girl who is as rich as she is pretty, it's hard to take no for an answer.—Epoch.

Pain from indigestion, dyspepaia and too bearty eating is relieved at once by taking one of Carter's Little Liver Pills immediate-ly after dinner. Don't forget this.

DEATH has no terrors to the tradesman who furnishes the fioral tribute at the funeral.—Boston Transcript.

A COUGH, COLD, OR SOME THROAT should not be neglected. BROWN'S BROWNIA TROCHES are a simple remedy, and give prompt relief. 25 cts. a box.

Bust place to hold the World's Pair right around the walst.—Boston Herald.

ARE as small as homospathic pellets, and as easy to take as sugar. Everybody likes them. Carter's Little Liver Pills. Try them.

WHEN lightning strikes it admits BRONCHITIS is cured by frequent small doses of Piso's Cure for Consumption.

Trour shoes may be classed as articles of

Acid in the Blood

Accumulating in the joints, is believed to be the cause of rheumatism, from which so many suffer at this season. Hood's Barnaparilla has had wonderful success in curing this complaint. It neutralises the acidity of the blood and restores the vital fluid to healthy condition. If you suffer from rheumatism, try Hood's Earsaparilla.

"I have been suffering from an acute attack of rheumatism induced by a severe sprain of a case displayment earths to be in which counsed proci swelling

Hood's Sarsaparilla Sold by all drugglets, \$1; six for M. Prepa by C. L. HOOD & CO., Apothecaries, Lowel

100 Doses One Dolla

1000-" SUNSHINK AND MOOBLIGHT "-180

Another Christmas and New Soor's A nual, by "A Han," of the Hock Islan Route; New Rendy for Distribution.

Houte, New Ready for Distribution.

The "Boys and Girls of America," and adults as well, who have read the instructive pages of "Watt-Stephen" (1885), "Voltagal," (1886), "Petroleum," (1887), "Coal and Coke," (1888), and "Iron and Steel," (1889), will be pleased to know that the latest and brightest of the famous Rock Island series, "Sunahine and Moonlight," (1890) now confidently awaits that chorus of approval which welcomed each of its predecessors.

of approval which welcomed each of its predecessors.

"A Man" invites the attention of his inquisitive boy and girl visitors this year, to wonders in the heavens above, revealed by the telescope. He tells them all about the sun, meen, planets, satellites, fixed stars, comets, and their movements, and explains the laws by which they are governed. The achievements of science in the field of astronomical research are presented in language so clear as to be easily understood by all readers. The book fascinates, while it elevates and impreves.

"Sunshine and Moonlight" comprises IIB pages, profusely illustrated with choice engravings. Its covers are ornamented with appropriate designs, beautifully printed in colors. Practically, it is a Christmas gift to the patrons and friends of the Rock Island Routs, and will be sent post-paid to any part of the world (as also previous issues, if desired) at the nominal price of ten (10) cents per copy. Write your address plainly and inclose ten (10) cents in stamps or coin, to Jug. Sessastian. G. T. & P. A., Chicago.

The man whopreaches without advancing

The man whopreaches without advancing a new idea or making an old one clearer is a misfit and ought to be lumped off to the auctioneer.—Milwaukee Journal.

Egypt and Jerusalem, Vin the Azores, Gibraltar, Naples and Rome.

A tour of ladies and gentlemen to visit the East. The ocean steamer "Circussian," 4274 tons, has been chartered to start with the party from New York February 19: Return, through France, England and Scotland about May 6th. The second section arriving in New York not far from June 7th. The main tour will cost less than \$500 in its cheapest form. Radiatory excursions to Ephesus, Constantinople, Vienna, &c., can be added to the route for a reasonable increase of expense.

be added to the route for a reasonable increase of expense.

Rollo Floyd, the prince of Syrian Dragomen, will have charge of the Oriental section; and Messrs. Gaze & Son, of London, have been engaged to manage the European section. Rev. Dr. C. F. Thomas, an experienced director of foreign tours, will have general charge on route. A number of young ladies have already been booked, as Mrs. Thomas will have charge of a department for them. ment for them.

This will be the most for the money ever

before offered in this line. For furthee particulars address Geo. May Powell, P. O. box 700, Philadelphia, Pa. Note.—A ten days' special trip from Caire to Karnak is also provided for.

An engagement is a very fragile thing. It can not be dropped without breaking it.

—Terre Haute Express.

POCKET pin-cushion free to smokers of "Tansill's Punch" 5c. Cigar.

A GRAND JURY never goes behind the re-

LUMBAGO.

BACKACHE.

Victoria, Tex., June 22, 1888 was in bed two months with backache ontly; no return in 1 G. W. JEFFERSON. bs Oil perman

AT DRUGGISTS AND DELLERS. THE QUARLES A. VOCELER CO.. Builden



For Old and Young.

Sold Everywhere.

Office, 44 Murray St., New York.

Apply Balm into

